## 

010000  $^{f(x)}$  0  $^{g(x)}$  000000  $^{m}$ 000000

 $200000 \ f(x) > g(x) + 1_{0000000} m_{0000}.$ 

3.000000  $a_{000}e^{x} - ax \ge x^{2} \ln x_{000} x > 0_{000}$ ?000  $a_{0000}$ .

$$x > 2, k < \frac{x \ln x + x}{x - 2}, \text{ } k \text{ } 000000.$$

5.000  $Xe^{x}$  -  $2x + k > 0_{0}[0, +\infty)_{0}$ 

7. 
$$\Box 2021 \bullet \Box \Box \Box \Box \Box \Box \Box = e^x + a \cos x - \sqrt{2}x - 2 \Box f(x) \Box f(x) \Box \Box \Box \Box \Box$$

$$200^{X \in [-\frac{\pi}{2}]} 0] 00^{f(X)...0} 0000000^{a} 000000$$

$$a = 1$$

$$200 \quad f(x) > \frac{1}{2} \ln(x+1) + \cos x$$

$$9 \square \square f(x) = \sin x - ax + 1 \square$$

$$\begin{bmatrix} a = \frac{1}{2} & f(x) & 0 \\ 0 = \frac{f(x) \cdot \cos x}{2} & x \in [0, \pi] \\ 0 = \frac{f(x) \cdot \cos x}{2} & x \in [0, \pi] \end{bmatrix}$$

$$300000 g(x) = f(x) + ax - 1_{0000} g(\frac{\pi}{15}) + g(\frac{2\pi}{15}) + g(\frac{3\pi}{15}) + \cdots + g(\frac{8\pi}{15}) \dots \frac{2\sqrt{2}}{5}$$

$$100000000^{-\frac{1}{2}X^2 + 1}$$
,  $\cos x$ 

 $\lim_{n\to\infty} k n \sqrt{x^2+1} + \cos x - 1, \ 0 \\ \lim_{n\to\infty} x \in [-1_0 \\ 1] \\ \lim_{n\to\infty} k \cos n = 1$ 

$$\cos(\tan t)$$
 -  $In(\cos t)$ ,,  $\frac{X_1 + X_2}{2}$ 

$$11_{\square\square\square} f(x) = \sin x_{\square} g(x) = \ln x_{\square} h(x) = x^2 - ax - 1_{\square}$$

$$0100 \stackrel{X \in [0}{0}11000 \stackrel{f(x)...g(x+1)}{0}0$$

$$20000 \stackrel{X \in (0_{1}]_{1}}{=} e^{f(x)} + h(x) - g(x) > 0_{1000} \, a_{10000}$$



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